

Table CT3. Total End-Use Energy Consumption Estimates, Selected Years, 1960-2016, Hawaii

Year	Coal Thousand Short Tons	Natural Gas ^a Billion Cubic Feet	Petroleum							Hydro- electric Power ^{f,g} Million Kilowatt- hours	Biomass		Geo- thermal ^g	Solar ^{g,j}	Retail Electricity Sales	Net Energy ^{g,k}	Electrical System Energy Losses ^l	Total ^{g,k}
			Distillate Fuel Oil	HGL ^b	Jet Fuel ^c	Motor Gasoline ^d	Residual Fuel Oil	Other ^e	Total		Wood and Waste ^{g,h}	Losses and Co- products ⁱ			Million Kilowatt- hours			
			Thousand Barrels															
1960	0	0	849	112	4,321	3,429	2,047	3,331	14,088	0	--	--	--	--	1,285	--	--	--
1970	0	0	1,599	938	14,273	5,691	3,452	1,354	27,307	86	--	--	--	--	3,776	--	--	--
1980	0	3	5,099	1,573	14,116	7,231	2,957	1,459	32,436	67	--	--	--	--	6,331	--	--	--
1990	28	3	4,675	178	12,646	8,670	5,222	2,965	34,357	57	--	--	--	--	8,311	--	--	--
2000	110	3	2,319	562	9,438	9,289	2,672	2,688	26,968	60	--	--	--	--	9,691	--	--	--
2001	113	3	3,064	582	8,895	9,710	2,671	2,969	27,891	50	--	--	--	--	9,785	--	--	--
2002	50	3	4,099	770	10,189	10,419	1,883	2,569	29,930	60	--	--	--	--	9,892	--	--	--
2003	52	3	5,908	492	12,708	10,597	1,277	2,779	33,762	50	--	--	--	--	10,391	--	--	--
2004	53	3	6,148	462	13,379	10,741	1,892	2,772	35,394	37	--	--	--	--	10,732	--	--	--
2005	59	3	4,723	432	16,372	10,978	1,905	2,968	37,379	34	--	--	--	--	10,539	--	--	--
2006	59	3	4,238	471	15,334	11,533	3,188	2,848	37,611	38	--	--	--	--	10,568	--	--	--
2007	72	3	6,981	419	12,756	11,348	4,893	2,770	39,167	38	--	--	--	--	10,585	--	--	--
2008	99	3	3,301	674	10,702	10,675	1,412	2,423	29,188	39	--	--	--	--	10,390	--	--	--
2009	88	3	3,802	819	9,303	10,834	1,680	3,080	29,518	35	--	--	--	--	10,126	--	--	--
2010	61	3	4,610	826	9,837	9,993	1,525	R 3,353	R 30,144	42	--	--	--	--	10,017	--	--	--
2011	58	3	4,050	900	10,948	11,145	1,456	R 3,361	R 31,861	49	--	--	--	--	9,962	--	--	--
2012	50	3	3,916	889	11,311	10,586	1,233	R 3,158	R 31,093	59	--	--	--	--	9,639	--	--	--
2013	61	3	3,640	824	11,323	10,746	1,163	R 3,346	R 31,041	44	--	--	--	--	9,503	--	--	--
2014	61	3	2,307	881	12,922	10,831	1,105	R 3,107	R 31,152	52	--	--	--	--	9,475	--	--	--
2015	50	3	2,596	747	13,421	R 11,053	997	R 3,092	R 31,906	59	--	--	--	--	9,511	--	--	--
2016	12	3	2,499	799	13,104	11,220	1,218	2,908	31,748	38	--	--	--	--	9,445	--	--	--

Trillion Btu

1960	0.0	0.0	4.9	0.4	23.5	18.0	12.9	17.5	77.3	0.0	0.0	NA	NA	NA	4.4	81.6	13.2	94.9
1970	0.0	0.0	9.3	3.6	80.1	29.9	21.7	8.2	152.7	0.9	0.2	NA	NA	NA	12.9	166.7	30.3	197.0
1980	0.0	3.0	29.7	5.8	79.2	38.0	18.6	8.8	180.1	0.7	11.9	NA	NA	NA	21.6	214.3	48.1	262.5
1990	0.7	3.0	27.2	0.7	71.1	45.5	32.8	17.8	195.2	0.6	18.2	0.0	(s)	0.9	28.4	243.8	77.6	321.4
2000	2.1	3.0	13.5	2.1	53.5	48.4	16.8	16.6	151.0	0.6	9.9	0.0	(s)	1.3	33.1	198.0	75.4	273.4
2001	2.0	2.9	17.8	2.2	50.4	50.6	16.8	18.0	155.9	0.5	5.1	0.0	(s)	1.2	33.4	198.4	71.9	270.2
2002	0.7	2.9	23.9	2.9	57.8	54.3	11.8	15.5	166.1	0.6	5.1	0.0	(s)	1.2	33.8	207.6	77.2	284.8
2003	1.4	2.9	34.4	1.9	72.1	55.1	8.0	16.7	188.2	0.5	6.7	0.0	(s)	1.3	35.5	233.7	67.3	301.0
2004	1.3	2.9	35.8	1.8	75.9	55.9	11.9	16.8	197.9	0.4	9.3	0.0	(s)	1.3	36.6	246.9	67.8	314.8
2005	1.4	2.9	27.5	1.7	92.8	57.1	12.0	18.0	209.0	0.3	8.4	0.0	(s)	1.3	36.0	256.6	68.1	324.7
2006	1.6	2.9	24.6	1.8	86.9	59.9	20.0	17.1	210.4	0.4	8.5	0.0	(s)	1.4	36.1	258.5	68.6	327.2
2007	1.8	3.0	40.4	1.6	72.3	58.5	30.8	16.7	220.2	0.4	8.0	0.0	(s)	1.5	36.1	268.2	69.6	337.7
2008	2.3	2.8	19.1	2.6	60.7	54.7	8.9	14.6	160.6	0.4	8.6	0.0	(s)	1.8	35.5	209.3	67.4	276.6
2009	2.0	2.7	22.0	3.1	52.7	55.3	10.6	19.0	162.7	0.3	8.5	0.0	(s)	2.0	34.6	210.3	65.7	276.0
2010	1.4	2.7	26.6	3.2	55.8	50.7	9.6	R 20.6	R 166.6	0.4	7.6	0.0	(s)	2.3	34.2	R 212.6	64.5	R 277.1
2011	1.3	2.7	23.4	3.5	62.1	56.5	9.2	R 20.7	R 175.2	0.5	6.7	0.0	(s)	2.8	34.0	R 220.7	64.9	R 285.5
2012	1.1	2.8	22.6	3.4	64.1	53.6	7.8	R 19.3	R 170.8	0.6	6.3	0.0	(s)	4.2	32.9	R 216.0	61.9	R 277.9
2013	1.4	2.9	21.0	3.2	64.2	54.4	7.3	R 20.6	R 170.7	0.4	7.6	0.0	(s)	5.9	32.4	R 218.6	59.9	R 278.5
2014	1.4	2.8	13.3	3.4	73.3	54.8	6.9	R 19.2	R 170.9	0.5	7.1	0.0	(s)	7.2	32.3	R 219.5	59.8	R 279.3
2015	1.1	2.9	15.0	2.9	76.1	R 55.9	6.3	R 19.1	R 175.2	0.5	6.7	0.0	(s)	7.8	32.5	R 224.0	59.1	R 283.2
2016	0.3	3.0	14.4	3.1	74.3	56.8	7.7	17.8	174.0	0.3	7.4	0.0	(s)	8.9	32.2	223.4	59.6	282.9

^a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."^d Beginning in 1993, includes fuel ethanol blended into motor gasoline.^e Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.^f Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.^g There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.^h Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.ⁱ Losses and co-products from the production of fuel ethanol.^j Solar thermal and photovoltaic energy. Includes a small amount of wind energy consumed by commercial and industrial utility-scale facilities.^k Beginning in 2009, includes wind energy consumed by the commercial and industrial sectors. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.^l Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

-- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.